

New Class of Materials: Half-Metallic Ferromagnets

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Predicted Modifications in the Direct and Indirect Gaps of Tetrahedral Semiconductors. Physical Review Letters, 1984, 52, 675-678.	2.9	62
2	Crystal structure, magnetic properties, and ^{57}Fe Mössbauer effect of PtFeSn. Physica Status Solidi A, 1984, 86, 655-662.	1.7	4
3	First principle theory of metallic magnetism. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1984, 127, 257-263.	0.9	82
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5	Half-metallic ferromagnets and their magneto-optical properties (invited). Journal of Applied Physics, 1984, 55, 2151-2154.	1.1	170
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11	FeMnSb: A half-metallic ferrimagnet. Journal of Magnetism and Magnetic Materials, 1986, 61, 330-336.	1.0	78
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20	CrO ₂ A New Half-Metallic Ferromagnet?. Physical Review Letters, 1987, 59, 2788-2791.	2.9	326
21	Boundary Resistance of the Ferromagnetic-Nonferromagnetic Metal Interface. Physical Review Letters, 1987, 58, 2271-2273.	2.9	499
22	MAGNETIC AND MAGNETO-OPTIC PROPERTIES OF PtMnSb THIN FILMS. Journal of the Magnetics Society of Japan, 1987, 11, S1_221-224.	0.4	7
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24	Photoemission of intermetallics. Journal of Magnetism and Magnetic Materials, 1987, 70, 21-27.	1.0	27
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1859	Correlations between structural, electronic transport, and magnetic properties of<math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></math> alloy epitaxial thin films. Physical Review B, 2015, 92, .	1.1	12
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1955	Enhanced power factor and reduced thermal conductivity of a half-Heusler derivative Ti ₉ Ni ₇ Sn ₈ : A bulk nanocomposite thermoelectric material. Applied Physics Letters, 2015, 106, 103901.	1.5	24
1956	Electronic structures and magnetism in the Li ₂ AgSb-type Heusler alloys, Zr ₂ CoZ (Z=Al, Ga, In, Si, Ge, Sn.) Tj ETQq0 0.0 rgBT /Overlock 10	1.0	54
1957	Robust Half-Metallicity and Electronic Structure of the New Full-Heusler Compounds CsBaX ₂ (X = C,) Tj ETQq1 1 0.784314 rgBT /Overlock 16	0.8	16
1958	Generating magnetic response and half-metallicity in GaP via dilute Ti-doping for spintronic applications. Journal of Alloys and Compounds, 2015, 649, 184-189.	2.8	19
1959	A new two-dimensional metal-organic framework with high spin-filtering efficiency. Physical Chemistry Chemical Physics, 2015, 17, 17437-17444.	1.3	22
1960	Investigation of electronic structure, magnetic and transport properties of half-metallic Mn ₂ CuSi and Mn ₂ ZnSi Heusler alloys. Journal of Magnetism and Magnetic Materials, 2015, 395, 81-88.	1.0	63
1961	First-principle study on some new spin-gapless semiconductors: The Zr-based quaternary Heusler alloys. Superlattices and Microstructures, 2015, 85, 536-542.	1.4	80
1962	Heusler Compounds: Applications in Spintronics. , 2015, , 1-24.		2
1963	Magnon Spintronics. , 2015, , 1-38.		1
1964	Influence of film composition in quaternary Heusler alloy Co ₂ (Mn,Fe)Si thin films on tunnelling magnetoresistance of Co ₂ (Mn,Fe)Si/MgO-based magnetic tunnel junctions. Journal Physics D: Applied Physics, 2015, 48, 164001.	1.3	88
1965	The electronic, magnetic and optical properties of Cr-doped MC (M=Si, Ge and Sn): A density functional theory approach. Materials Science in Semiconductor Processing, 2015, 38, 218-227.	1.9	19
1966	Effect of Superparamagnetic Fe ₃ O ₄ Nanoparticles on Schottky Barriers of Graphene. IEEE Transactions on Magnetism, 2015, 51, 1-4.	1.2	0
1967	Half-metallicity in armchair boron nitride nanoribbons: A first-principles study. Solid State Communications, 2015, 212, 19-24.	0.9	16
1968	Half metallicity in Sr ₂ CrOsO ₆ via Na doping. Journal of Alloys and Compounds, 2015, 636, 257-260.	2.8	11
1969	d ₀ half-metallicity of DO ₃ -type XN ₃ (X=Na, K and Rb): A first-principle study. Computational Materials Science, 2015, 104, 1-9.	1.4	20
1970	Half-metallic ferromagnetism in the CsSe compound by density functional theory. Journal of Alloys and Compounds, 2015, 639, 162-167.	2.8	19
1971	Basics and prospective of magnetic Heusler compounds. APL Materials, 2015, 3, 041518.	2.2	177

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1973	Half-metallicity of zinc blend YSi and YSi/CdTe interfaces: By modified Becke-Johnson density functional calculations. Journal of Magnetism and Magnetic Materials, 2015, 387, 19-23.	1.0	6
1974	Electronic and magnetic properties of the Co ₂ MnAl/Au interface: Relevance of the Heusler alloy termination. Journal of Magnetism and Magnetic Materials, 2015, 385, 133-137.	1.0	5
1975	The effect of Mn content on magnetism and half-metallicity of off-stoichiometric Co ₂ MnAl. Journal of Magnetism and Magnetic Materials, 2015, 387, 118-126.	1.0	24
1976	A First-Principles Study on CrZrMnGa. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1871-1873.	0.8	2
1977	Phase stability, band gap, and electronic and magnetic properties of quaternary heusler alloys FeMnScZ (Z = Al, Ga, In). Journal of the Korean Physical Society, 2015, 66, 959-965.	0.3	14
1978	Half-metallic Ni ₂ MnSn Heusler alloy prepared by rapid quenching. Journal of Magnetism and Magnetic Materials, 2015, 386, 98-101.	1.0	23
1979	Theoretical investigations of electronic structure and magnetism in Zr ₂ CoSn full-Heusler compound. Journal of Magnetism and Magnetic Materials, 2015, 388, 1-4.	1.0	33
1980	A spin-gapless semiconductor of inverse Heusler Ti ₂ CrSi alloy: First-principles prediction. Journal of Magnetism and Magnetic Materials, 2015, 385, 55-59.	1.0	32
1981	Half-metallicity of the bulk and surface (001) of full-Heusler alloy RbSrN ₂ : A first-principle study. Journal of Magnetism and Magnetic Materials, 2015, 385, 394-401.	1.0	13
1982	Electronic structure and magnetism in <i>g</i> -C ₄ N ₃ controlled by strain engineering. Applied Physics Letters, 2015, 106, .	1.5	23
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1986	Synthesis, characterisation and properties of rare earth oxyselenides A ₄ O ₄ Se ₃ (A = Eu, Gd, Tb, Dy, Ho). Journal of Magnetism and Magnetic Materials, 2015, 386, 102-107.	1.6	10
1987	Giant spontaneous Hall effect in zero-moment Mn ₂ Ru _x Ga. Applied Physics Letters, 2015, 106, .	1.5	35
1988	Magnetism, electronic structure and half-metallic property of transition metal (V, Cr, Mn, Fe, Co) substituted Zn ₃ P ₂ dilute magnetic semiconductors: An ab-initio study. Computational Materials Science, 2015, 102, 85-94.	1.4	16
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1991	Electronic, magnetic and Fermi properties investigated on quaternary Heusler NiCoCrAl, NiCoCrGa and NiFeCrGa. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 82, 28-35.	1.9	21
1992	The slave-fermion approach of spin fluctuations in ferromagnet metals. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 73-81.	1.0	0
1993	Room temperature ferromagnetism and half metallicity in nickel doped ZnS: Experimental and DFT studies. <i>Materials Chemistry and Physics</i> , 2015, 160, 440-446.	2.0	28
1994	Band gap and electronic structure of MgSiN ₂ determined using soft X-ray spectroscopy and density functional theory. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 250-254.	1.2	20
1995	Study of electronic structure of Co ₂ MnSn Heusler alloy by resonant photoemission spectroscopy and ab initio calculations. <i>Journal of Alloys and Compounds</i> , 2015, 645, 112-117.	2.8	18
1996	Electronic structures, magnetic properties and half-metallicity in Heusler alloys Zr ₂ CoZ (Z=Al, Ga, In). <i>Tj ETQq0 0 0 rrgBT /Overlock 10 Tf</i>	1.0	43
1997	Half Metallic Ferrimagnetism in Hole-Doped Lanthanide Iridates. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 917-919.	0.8	2
1998	First-principles study of the electronic and the magnetic properties of Cr-doped wurtzite cadmium sulfide (Cd _{1-x} Cr _x S, x = 12.5% and 6.25%). <i>Journal of the Korean Physical Society</i> , 2015, 67, 518-524.	0.3	4
1999	Unusual site preference of Cu in Ni ₂ -based Heusler alloys Ni ₂ CuSb and Ni ₂ CuSn. <i>Solid State Communications</i> , 2015, 222, 23-27.	0.9	8
2000	Ab initio study of domain structures in half-metallic CoTi _{1-x} Mn _x Sb and thermoelectric CoTi _{1-x} Sc _x Sb half-Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2015, 650, 728-740.	2.8	13
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2003	Theoretical Prediction of a Stable 2D Crystal of Vanadium Porphyrin: A Half-Metallic Ferromagnet. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25657-25662.	1.5	21
2004	Study of the enhanced electronic and thermoelectric (TE) properties of Zr _x Hf _{1-x} Ta _y Ni _{1-y} Sn: a first principles study. <i>RSC Advances</i> , 2015, 5, 95353-95359.	1.7	46
2005	Metal free half metallicity in 2D system: structural and magnetic properties of g-C ₄ N ₃ on BN. <i>Scientific Reports</i> , 2014, 4, 4374.	1.6	43
2006	Ab initio study of structural, electronic, magnetic alloys: XTiSb (X = Co, Ni and Fe). <i>AIP Conference Proceedings</i> , 2015, , .	0.3	4
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2010	Chemical disorder as an engineering tool for spin polarization in $\text{Mn}_{1-x}\text{Ru}_x\text{Sn}$ Heusler systems. Physical Review B, 2015, 91, .	1.1	8
2011	Magnetic anisotropy of $[\text{Co}_2\text{MnSi/Pd}]_n$ superlattice films prepared on MgO(001), (110), and (111) substrates. Applied Physics Letters, 2015, 106, .	1.5	17
2012	Effect of growth temperature on structural, magnetic, and transport properties of $\text{Co}_2\text{Cr}_{0.6}\text{Fe}_{0.4}\text{Al}$ Heusler alloy sputtered thin films. Journal of Applied Physics, 2015, 117, .	1.1	8
2013	First-principles investigation on the magnetism of low-concentration 3d (Cr, Mn, Fe Co, Ni)-doped BeTe semiconductors. Computational Condensed Matter, 2015, 5, 14-18.	0.9	3
2014	Equilibrium Chemical Disorder at the Surface of a Single-Crystal NiMnSb Half-Heusler Alloy: Implications for Spintronics. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	2
2015	Half-Metallic Properties in the New Ti_2NiB Heusler Alloy. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3285-3291.	0.8	27
2016	A novel theoretical design of electronic structure and half-metallic ferromagnetism in the 3d (V)-doped rock-salts SrS, SrSe, and SrTe for spintronics. RSC Advances, 2015, 5, 92328-92334.	1.7	32
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2022	Roadmap for Emerging Materials for Spintronic Device Applications. IEEE Transactions on Magnetics, 2015, 51, 1-11.	1.2	179
2023	First-principles study on the band structure, magnetic and elastic properties of half-metallic Cr_2MnAl . Modern Physics Letters B, 2015, 29, 1550139.	1.0	14
2024	First-Principles Study of Half-Metallic Ferromagnetism of the Full-Heusler Compounds RbSrX_2 (X = C, Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	19
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2028	Molecular beam epitaxy growth and properties of Co ₂ TiSi thin films on GaAs(001): the effect of growth temperature. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 025003.	1.3	6
2029	A Minimal tight-binding model for ferromagnetic canted bilayer manganites. <i>Scientific Reports</i> , 2015, 4, 7512.	1.6	3
2030	First-principles study on the ferrimagnetic half-metallic Mn ₂ FeAs alloy. <i>Journal of Solid State Chemistry</i> , 2015, 225, 8-12.	1.4	21
2031	Density functional study of half-metallic property on B2 disordered Co ₂ FeSi. <i>Journal of Materials Science</i> , 2015, 50, 1287-1294.	1.7	16
2032	Spin-Dependent Transport and Optical Properties of Transparent Half-Metallic g-C ₄ N ₃ Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1859-1866.	1.5	16
2033	Effect of substitution of Co with Fe on the structural, electronic and magnetic properties of Heusler alloy Co ₂ CrAl. <i>Physica B: Condensed Matter</i> , 2015, 459, 46-51.	1.3	15
2034	Investigation of high spin-polarization, magnetic, electronic and half-metallic properties in RuMn ₂ Ge and RuMn ₂ Sb Heusler alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 193, 70-75.	1.7	34
2035	A theoretical study on the structural and physical properties of the ground-state CaC. <i>Solid State Communications</i> , 2015, 203, 10-15.	0.9	2
2037	The half-metallic ferromagnetism character in Be _{1-x} V _x Y (Y=Se and Te) alloys: An ab-initio study. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 379, 63-73.	1.0	32
2038	Magnetic properties of Heusler alloy Mn ₂ RuGe and Mn ₂ RuGa ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 379, 1-5.	1.0	17
2039	First principles study on half-metallic properties of Heusler compounds Ti ₂ VZ (Z=Al, Ga, and In). <i>Solid State Communications</i> , 2015, 202, 52-57.	0.9	59
2040	Structural and electronic properties of half-Heusler alloys PtXBi (with X=Mn, Fe, Co and Ni) calculated from first principles. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 377, 252-258.	1.0	42
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2042	Half-Metallicity in Single-Layered Manganese Dioxide Nanosheets by Defect Engineering. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1195-1199.	7.2	177
2043	Magnetic and structural properties of Co ₂ FeAl thin films grown on Si substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 373, 140-143.	1.0	21
2044	Theoretical investigation of the electronic structures and magnetic properties of the bulk and surface (001) of the quaternary Heusler alloy NiCoMnGa. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 378, 1-6.	1.0	28

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2046	Electronic, structural, and magnetic properties of the quaternary Heusler alloy NiCoMnZ (Z=Al, Ge). Journal of Magnetism and Magnetic Materials, 2015, 378, 16-23.	1.0	55
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2048	Structural, elastic, electronic, magnetic and optical properties of RbSrX (X=C, Si, Ge) half-Heusler compounds. Journal of Magnetism and Magnetic Materials, 2015, 377, 204-210.	1.0	71
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2052	Electronic structures and magnetism of Rh ₃ Z (Z=Al, Ga, In, Si, Ge, Sn, Pb, Sb) with DO ₃ structures. Journal of Magnetism and Magnetic Materials, 2015, 378, 16-23.	1.0	44
2053	The effect of disorder on electronic and magnetic properties of quaternary Heusler alloy CoFeMnSi with LiMgPbSb-type structure. Journal of Magnetism and Magnetic Materials, 2015, 378, 7-15.	1.0	72
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2055	Spin-polarized structural, elastic, electronic and magnetic properties of half-metallic ferromagnetism in V-doped ZnSe. Journal of Magnetism and Magnetic Materials, 2015, 374, 50-60.	1.0	29
2056	Theoretical investigations of an influence of Ti on electronic structure and magnetic properties of half-metallic Fe ₂ Mn _{1-x} Ti _x Si _{0.5} Al _{0.5} alloys. Journal of Magnetism and Magnetic Materials, 2015, 375, 26-32.	1.0	4
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2058	Structural, electronic and magnetic properties of the (001), (110) and (111) surfaces of rocksalt sodium sulfide: A first-principles study. Journal of Physics and Chemistry of Solids, 2015, 76, 94-99.	1.9	14
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2060	Magnetic Tunnel Junctions. , 2016, , .		0
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2064	Structural stability, electronic structure and magnetic properties of the new hypothetical half-metallic ferromagnetic full-Heusler alloy CoNiMnSi. Materials Science-Poland, 2016, 34, 85-93.	0.4	25
2065	Half-metallicity in Heusler-type $\text{Fe}_2\text{Cr}_2\text{Co}_2\text{Si}$ alloys. Journal Physics D: Applied Physics, 2016, 49, 055001.	1.3	4
2066	Two-dimensional monolayer designs for spintronics applications. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, 441-455.	6.2	64
2067	Electronic structure and magnetic properties of chalcopyrite type ZnMX_2 ($M = \text{Sc, V, Cr, Mn, Fe}$; $X = \text{P, As}$) compounds: An ab initio study. Physica Status Solidi (B): Basic Research, 2016, 253, 1576-1584.	0.7	9
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2070	Effect of boron on the structural and magnetic properties of $\text{Co}_2\text{FeSi}_{1-x}\text{B}_x$ Heusler alloys. AIP Conference Proceedings, 2016, , .	0.3	0
2071	Ferromagnetism in half-metallic quaternary FeVTiAl Heusler compound. AIP Conference Proceedings, 2016, , .	0.3	0
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2073	Compensated half metallicity in osmium double perovskite driven by doping effects. Materials Research Express, 2016, 3, 106107.	0.8	11
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2075	Investigation of half-metallicity of GeKMg and SnKMg by Using mBJ potential method. Journal of Physics: Conference Series, 2016, 765, 012018.	0.3	5
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2083	The effect of pressure and alloying on half-metallicity of quaternary Heusler compounds CoMnYZ (Z = Tj ETQq0 0 0 rgBT /Overlock 10 T	0.4	14
2084	Fabrication of FeSi and Fe3Si compounds by electron beam induced mixing of [Fe/Si]2 and [Fe3/Si]2 multilayers grown by focused electron beam induced deposition. Journal of Applied Physics, 2016, 119, .	1.1	20
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2086	Enhanced half-metallicity in orientationally misaligned graphene/hexagonal boron nitride lateral heterojunctions. Physical Review B, 2016, 94, .	1.1	17
2087	Fe3O4 thin films: controlling and manipulating an elusive quantum material. Npj Quantum Materials, 2016, 1, .	1.8	51
2088	A half-metallic half-Heusler alloy having the largest atomic-like magnetic moment at optimized lattice constant. AIP Advances, 2016, 6, .	0.6	13
2089	Magnetism and electronic structure of CoFeCrX (X = Si, Ge) Heusler alloys. Journal of Applied Physics, 2016, 120, .	1.1	25
2090	Equiatomic quaternary Heusler alloys: A material perspective for spintronic applications. Applied Physics Reviews, 2016, 3, 031101.	5.5	242
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2092	The role of chemical structure on the magnetic and electronic properties of Co2FeAl0.5Si0.5/Si(111) interface. Applied Physics Letters, 2016, 108, .	1.5	15
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2095	Magnetostructural martensitic transformations with large volume changes and magneto-strains in all-d-metal Heusler alloys. Applied Physics Letters, 2016, 109, .	1.5	84
2096	Ab-initio study of structural, elastic, thermal, electronic and magnetic properties of quaternary Heusler alloys CoMnCrZ (Z = Al, As, Si, Ge). European Physical Journal B, 2016, 89, 1.	0.6	56
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2103	The electronic and magnetic properties of quaternary Heusler alloy CoFeMnGe. AIP Conference Proceedings, 2016, , .	0.3	1
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2972	Study of half metallic nature and transport properties of XMnSe2 (X = Ca, Sr and Ba) compounds via ab-initio calculations. Journal of Materials Research and Technology, 2020, 9, 10511-10519.	2.6	20
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2974	Ultralow Gilbert damping in < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> < mml:mrow> < mml:msub> < mml:mi>CrO</mml:mi> < mml:mn> 12</mml:mn> </mml:mrow> epitaxial films. Physical Review B, 2020, 102, .	1.2	15
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2984	Ferromagnetism and controllable half-metallicity of two-dimensional hexagonal CrOX (X = F, Cl, Br) monolayers. Journal of Magnetism and Magnetic Materials, 2020, 515, 167310.	1.0	11
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3105	First principle investigations of structural, electronic and magnetic properties of Cr doped zinc-blende MgTe ternary alloys with DFT based FP-LAPW approach. <i>Materials Today: Proceedings</i> , 2021, 46, 6324-6329.	0.9	0
3106	Analysis of Cage Structured Halide Double Perovskites Cs ₂ NaMCl ₆ (M= Ti, V) by Spin Polarized Calculations. <i>Journal of Alloys and Compounds</i> , 2021, 854, 156000.	2.8	44
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3118	First-Principles Investigation of Ti _{2.25} Co _{0.75} Si and Ti _{2.25} Co _{0.75} Si _{0.5} X _{0.5} (X = As and Sb) Heusler Alloys: Spin-Polarized Electronic, Magnetic, and Mechanical Properties. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 285-294.	0.8	0
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3783	Structural, magnetic, and transport properties of epitaxial thin films of equiatomic quaternary CoFeCrGa Heusler alloy. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	2
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3785	The Structural, Electronic, Magnetic and Elastic Properties of Full-Heusler Co ₂ CrAl and Cr ₂ MnSb: An Ab Initio Study. <i>Crystals</i> , 2022, 12, 1580.	1.0	2
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3797	Effect of Atomic Substitutions on Electronic Structure of Pt _{1-x} Me _x MnSb (Me = Ni, Au; x) <i>Tj ETQq1 1 0,784314rgBT /Over</i>	0.2	0
3798	Nanoparticle geometrical effects on percolation, packing density, and magnetoresistive properties in ferromagnet-superconductor-insulator nanocomposites. <i>Physical Review B</i> , 2022, 106, .	1.1	1
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3839	Cubic and tetragonal phases competition of magnetic RuVZ(Si;Ge) Heusler compounds: ab initio investigation. <i>Solid State Communications</i> , 2023, 366-367, 115161.	0.9	1
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